



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-WMM-4

Date: 17-02-2017

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref.: Material testing/YNK-SPH/16-17,
Report Required for: Executive Engineer,

Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	97.80	95-100
26.50	---	-
22.40	71.50	60-80
11.20	49.10	40-60
4.75	33.00	25-40
2.36	23.40	15-30
0.600	14.90	8-22
0.075	4.50	0-8

*As Furnished by Client
The Results relate only to the items tested

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K. R.
KIRAN. R
MECH

Page No. 1/2,

For Newzen Consultants Bangalore

Proprietor



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



Date: 17-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	25.00 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	27.30	Not more than 30.0 %
3.	Water absorption, %	0.38 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

*As furnished by Client.

Note: The Results relate only to the items tested

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Page No. 2/2



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-WMM-5

Date: 17-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

I. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	98.40	95-100
26.50	---	-
22.40	64.20	60-80
11.20	42.90	40-60
4.75	30.40	25-40
2.36	16.70	15-30
0.600	11.30	8-22
0.075	3.80	0-8

*As Furnished by Client

AE The Results relate only to the items tested

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ALE CWA Engg.

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NEW TECHNOLOGIES TO INNOVATE



Date: 17-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	22.39 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	26.15	Not more than 30.0 %
3.	Water absorption, %	0.35 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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M.E. Civil Engg.

Page No. 2/2

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-WMM-6

Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

I. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	96.80	95-100
26.50	---	-
22.40	73.50	60-80
11.20	48.10	40-60
4.75	35.00	25-40
2.36	19.60	15-30
0.600	11.10	8-22
0.075	4.50	0-8

*As Furnished by Client

The Results relate only to the items tested

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KIRAN. R

Page No. 1/2,

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-WMM-7

Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	96.90	95-100
26.50	---	-
22.40	71.40	60-80
11.20	48.70	40-60
4.75	39.00	25-40
2.36	19.20	15-30
0.600	13.50	8-22
0.075	4.10	0-8

*As Furnished by Client

The Results relate only to the items tested

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NEW TECHNOLOGIES TO INNOVATE



Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	22.37 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	28.49	Not more than 30.0 %
3.	Water absorption, %	0.35 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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KIRAN. R
AE Civil Engg.

Page No. 2/2

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-WMM-8

Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	98.60	95-100
26.50	---	-
22.40	70.10	60-80
11.20	48.50	40-60
4.75	36.10	25-40
2.36	23.40	15-30
0.600	14.70	8-22
0.075	6.40	0-8

*As Furnished by Client

The Results relate only to the items tested

K. R.
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Page No. 1/2,

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	24.07 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	27.50	Not more than 30.0 %
3.	Water absorption, %	0.37 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Page No. 2/2



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-WMM-9

Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref.: Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	97.40	95-100
26.50	---	-
22.40	64.20	60-80
11.20	43.60	40-60
4.75	32.10	25-40
2.36	20.90	15-30
0.600	16.40	8-22
0.075	6.60	0-8

*As Furnished by Client

The Results relate only to the items tested

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For Newzen Consultants Bangalore

Page No. 1/2,

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NEW TECHNOLOGIES TO INNOVATE



Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	22.89 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	27.98	Not more than 30.0 %
3.	Water absorption, %	0.36 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Page No. 2/2



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-WMM-10

Date: 18-02-2017

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision- 2001
53.00	100.00	100
45.00	96.10	95-100
26.50	---	-
22.40	64.70	60-80
11.20	44.60	40-60
4.75	30.20	25-40
2.36	24.90	15-30
0.600	16.10	8-22
0.075	4.30	0-8

*As Furnished by Client

The Results relate only to the items tested

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18.02.2017

Page No. 1/2,

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



Date: 18-02-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value	23.07 %	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	24.18	Not more than 30.0 %
3.	Water absorption, %	0.36 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

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Page No. 2/2

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/MT/2016-17/SPH-BT-1

Date: 17-02-2017

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, IV Revision, 2001 and IS 73: 1992.

TEST RESULTS

TABLE 1.1 :

SL No	Details	Test Results	Requirements as per I.S 73 -1992 Specifications
1.	Penetration at 25 ⁰ C	46.0 Min	Min. 45
2.	Ductility Value at 25 ⁰ C	87.0 cm	40 cm
3.	Flash point	225 ⁰ C	Minimum 220 ⁰ C
4.	Softening point	51.3 ⁰ C	Min. 47

*As furnished by Client.

The results relate only to the samples tested.

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KIRAN. R.
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Page No. 1/1,

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-CA-2

Date: 17-02-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used for Dense Bituminous Macadam.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

TABLE 1.1 :

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.O.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value, %	23.47	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	24.98	Not more than 30.0 %
3.	Water absorption, %	0.35 %	Not more than 2.0 %
4.	Specific gravity	2.442	-----
5.	Soundness	5.90 %	Max. 12.5 in Sodium Sulphate

*As furnished by Client.

The results relate only to the samples tested.

KIRAN. R
M.E. CIVIL ENGINEER

Page No. 1/1,

For Newzen Consultants Bangalore

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-CA-3

Date: 20-02-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used for Dense Bituminous Macadam.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

TABLE 1.1 :

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value, %	23.64	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	25.39	Not more than 30.0 %
3.	Water absorption, %	0.35 %	Not more than 2.0 %
4.	Specific gravity	2.445	-----
5.	Soundness	5.84 %	Max. 12.5 in Sodium Sulphate

*As furnished by Client.

The results relate only to the samples tested.

K. R.
KIRAN. R.
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Page No. 1/1,

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-DBM-1

Date: 20-02-2017

TEST REPORT ON BITUMINOUS MIXES (BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM Mix Sample.
{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,
Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**.
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50- 75mm thick, as per Table 500-10 of M.o.R.T.H Specifications-IV Revision-2001
37.5	100.00	100
26.5	95.20	90-100
19	83.00	71-95
13.2	74.00	56-80
4.75	43.00	38-54
2.36	32.60	28-42
0.3	17.80	7-21
0.075	5.10	2-8

*As Furnished by Client.
The Results relate only to the items tested

K. R.
KIRAN. R
For Newzen Consultants Bangalore

Page No. 1/1

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-DBM-2

Date: 20-02-2017

TEST REPORT ON BITUMINOUS MIXES (BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM Mix Sample.
{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,
Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.50 %**.
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50- 75mm thick ,as per Table 500-10 of M.o.R.T.H Specifications-IV Revision-2001
37.5	100.00	100
26.5	98.10	90-100
19	86.70	71-95
13.2	79.50	56-80
4.75	41.20	38-54
2.36	33.70	28-42
0.3	14.90	7-21
0.075	4.60	2-8

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*As Furnished by Client.
The Results relate only to the items tested

KIRAN. R
AE Civil Engg.

Page No. 1/1

For Newzen Consultants Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-DBM-3

Date: 21-02-2017

TEST REPORT ON BITUMINOUS MIXES (BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM Mix Sample.
{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,
Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**.
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50- 75mm thick, as per Table 500-10 of M.o.R.T.H Specifications-IV Revision-2001
37.5	100.00	100
26.5	96.20	90-100
19	82.70	71-95
13.2	70.10	56-80
4.75	49.80	38-54
2.36	35.40	28-42
0.3	14.90	7-21
0.075	3.50	2-8

*As Furnished by Client.
The Results relate only to the items tested

Page No. 1/1

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16/02/2017

[Signature]
For Newzen Consultants Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-DBM-4

Date: 21-02-2017

TEST REPORT ON BITUMINOUS MIXES (BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM Mix Sample.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**.
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50- 75mm thick, as per Table 500-10 of M.o.R.T.H Specifications-IV Revision-2001
37.5	100.00	100
26.5	99.10	90-100
19	87.60	71-95
13.2	59.80	56-80
4.75	41.50	38-54
2.36	37.20	28-42
0.3	15.70	7-21
0.075	6.00	2-8

*As Furnished by Client.

The Results relate only to the items tested

Page No. 1/1

KIRAN. R
S.F. (Civil Engineer)

For Newzen Consultants Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-BT-2

Date: 20-02-2017

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, IV Revision, 2001 and IS 73: 1992.

TEST RESULTS

TABLE I.1 :

SL No	Details	Test Results	Requirements as per I.S 73 -1992 Specifications
1.	Penetration at 25 ⁰ C	51.0 Min	Min. 45
2.	Ductility Value at 25 ⁰ C	95.0 cm	40
3.	Flash point	236 ⁰ C	Minimum 220 ⁰ C
4.	Softening point	52.0 ⁰ C	Min. 47

*As furnished by Client.

The results relate only to the samples tested.

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Page No. 1/1,

Vignesh
For Newzen Consultants Bangalore
Proprietor



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-CA-4

Date: 20-02-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used for Bituminous Concrete.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

TABLE 1.1 :

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value, %	22.51	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	24.19	Not more than 30.0 %
3.	Water absorption, %	0.34 %	Not more than 2.0 %
4.	Specific gravity	2.451	-----
5.	Soundness	5.74%	Max. 12.5 in Sodium Sulphate

*As furnished by Client.

The results relate only to the samples tested.

K. R.
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16/02/2017

Page No. 1/1,

For Newzen Consultants Bangalore

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-CA-5

Date: 22-02-2017

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used for Bituminous Concrete.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

TABLE 1.1:

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, IV Revision -2001.
1.	Aggregate Impact Value, %	22.84	Not more than 24.00 % for BC Not more than 27.00 % for DBM Not more than 30.00 % for BM/WMM
2.	Combined Flakiness and Elongation index, %	24.45	Not more than 30.0 %
3.	Water absorption, %	0.34 %	Not more than 2.0 %
4.	Specific gravity	2.455	-----
5.	Soundness	5.50 %	Max. 12 5 in Sodium Sulphate

*As furnished by Client.

The results relate only to the samples tested.

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Page No. 1/1,

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-BC-1

Date: 22-02-2017

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.02 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications- 2001 BC (Grading - 2)
19.0	100	100
13.2	92.90	79-100
9.5	85.20	70-88
4.75	66.50	53-71
2.36	51.30	42-58
1.18	43.90	34-48
0.600	32.60	26-38
0.300	19.10	18-28
0.150	14.80	12-20
0.075	6.40	4-10

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1

KIRAN. R
H.E. Civil Engg.

For Newzen Consultants Bangalore

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-BC-2

Date: 22-02-2017

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : Bituminous Concrete(40mm thick).

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.01 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications- 2001 BC (Grading - 2)
19.0	100	100
13.2	92.50	79-100
9.5	84.10	70-88
4.75	66.90	53-71
2.36	47.20	42-58
1.18	39.60	34-48
0.600	27.50	26-38
0.300	25.80	18-28
0.150	17.30	12-20
0.075	7.90	4-10

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-BC-3

Date: 23-02-2017

I. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : Bituminous Concrete(40mm thick).

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.03 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications- 2001 BC (Grading - 2)
19.0	100	100
13.2	98.60	79-100
9.5	85.20	70-88
4.75	66.90	53-71
2.36	51.40	42-58
1.18	43.70	34-48
0.600	34.60	26-38
0.300	20.10	18-28
0.150	16.30	12-20
0.075	8.50	4-10

*As Furnished by Client.

The Results relate only to the items tested.

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Page No. 1/1

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NEW TECHNOLOGIES TO INNOVATE



NC/MT/2016-17/SPH-BC-4

Date: 23-02-2017

L.TEST REPORT ON BITUMINOUS MIXES:

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Widening and Asphaltting of Main Road from Sampigehalli to Agrahara Village in Ward no. 05, Byatarayanapura Sub- Division.}

Ref. : Material testing/YNK-SPH/16-17,

Report Required for: Executive Engineer,
Yelahanka Projects,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri G. N. Ramesh,
Contractor, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **6.04 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications- 2001 BC (Grading - 2)
19.0	100	100
13.2	94.10	79-100
9.5	71.30	70-88
4.75	57.80	53-71
2.36	44.00	42-58
1.18	36.90	34-48
0.600	32.70	26-38
0.300	20.20	18-28
0.150	18.50	12-20
0.075	5.90	4-10

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1

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